

Abstract

Multiple wavelength spectrometers can be tuned to particular wavelengths. A dual wavelength spectrometer can include a spectrometer configured to detect at least some wavelengths that fall within the ultraviolet (UV) spectrum and a spectrometer
5 configured to detect at least some wavelengths that fall within the visible spectrum. In some embodiments, a UV light spectrometer and a visible light spectrometer are disposed adjacent one another on a single substrate. A dual wavelength spectrometer can be used for analyzing bioaerosols, as well as for numerous other applications.